

## A time to dream...!

*Touch us gently, Time!  
Let us glide adown thy stream  
Gently, -- as we sometimes glide  
Through a quiet Dream.*  
-- Bryan W. Procter



NASA Administrator Daniel S. Goldin responds to a question while Dreamtime president and CEO Bill Foster (right) looks on.

What is possible when you combine hard-edged science and engineering in the context of a NASA mission with the entrepreneurial spirit, creative environment and financial clout of Silicon Valley? One can only dream, you



photos by Tom Trower

Southern California Congressman and Chair of the House Committee on Science Dana Rohrabacher lends his support to the new public-private partnership.



Center Director Henry McDonald welcomes the live and television audience to the NASA partnership news conference.

say. Perhaps, in the past. But not any more!

On June 2, NASA announced a daring and bold departure from the traditional way of conducting government business. Seeking to open up space to the entire country and the world, NASA signed a Space Act Agreement with a Silicon Valley-based, dot com company, appropriately named Dreamtime, with a distinctly different business culture. And,

**"We are going to bring space into everyone's soul and heart and home."**

-- Daniel S. Goldin, June 2, 2000

of notable significance to local interests, the deal was unveiled right here at Ames in the heart of the information technology "innovation zone."

NASA's new collaborator is a start-up venture with a vision and derring-do approach to business rivaled only by its own impressive list of partners, which include Excite@Home, Lockheed-Martin, Sumitomo Bank, the Endeavor Agency and Omnicom. Dreamtime is negotiating to locate its Headquarters in refurbished leased space in the "historic district" at Ames. Operational facilities will also be based at the Johnson and Kennedy space centers, and possibly elsewhere.

"Not only does this bring the space

*continued on back page*



Joe Rothenberg, Associate Administrator of the Office of Space Flight, addresses the audience while Public Affairs AA Peggy Wilhide awaits her turn at the podium.



Carleton Ruthling, Dreamtime's Chief Operating Officer, chats with Nancy Conrad, mistress of ceremonies for the event and wife of former astronaut Pete Conrad.



Astronauts John Young (left) and Michael Foale (right) flew in to make a special guest appearance.

Communication for the information technology age

## Diversity & Outreach

### Asian American Pacific Islander Heritage luncheon is big success

Lloyd LaCuesta (right), South Bay Bureau Chief for KTVU/Channel 2, shares a lighthearted moment with Daryl Wong, chair of the Ames Asian American Pacific Islander Advisory Group (AAPIAG). This year's theme was "Voices for the Millennium." LaCuesta was the keynote speaker for the event held in the ballroom of the Ames Moffett Training and Conference Center and catered by the Ames Café.



photo by Dominic Hart

### Fair draws large crowds



photos by Astrid Terlep

The NASA tent and exhibits were the usual big hit of the Sunnyvale Art and Wine Festival held on Saturday and Sunday, June 3-4, 2000. Coordinated by Jeff Cross of Ames' Office of Communication (Public Affairs), this year's exhibits focused on nanotechnology, biotechnology, information systems, Astrobiology and aerospace research.

An estimated 10,000 plus visitors passed through the Ames tent, observed the exhibits, asked questions of volunteer staff, watched videos in the enclosed theater, and tried out their hand at an interactive computer software program designed to "build your own aircraft."

While parents typically spent time reading the details of Ames projects, research and technology development on the numerous displays and exhibits, the visiting children seemed most excited to pick up the glider kits and other interactive educational tools that were available

to be taken home and enjoyed.

A display featuring Ames accomplishments during the Center's 60-year history was a particularly popular draw. In addition, well over 100 guests took the opportunity to drop by the booth staffed by the friends of the California Air and Space Center and register to get updates on progress, schedule and upcoming events.

Other Ames exhibits drawing special attention were those on Lunar Prospector, the Space Station centrifuge, CTAS, the civil tiltrotor, and aviation system capacity.

This was the sixth year of Ames active participation in the Sunnyvale event. Judging by the supportive comments and reaction of the visiting crowds, there is no reason to anticipate that the seventh time won't be even bigger and better than this



year.

Ames' Office of Communication has a regular series of summer events and venues for which it coordinates Center participation. Volunteers are always needed. The events present a great opportunity to get out and meet the public and let them know of your pride in NASA and Ames. To be a part of the Ames team, please call Jeff Cross at ext. 4-6571 or e-mail him at: [jlcross@mail.arc.nasa.gov](mailto:jlcross@mail.arc.nasa.gov)

BY DAVID MORSE

## News from Ames & Around the Agency

### Center Briefs

#### *NASA and congressman Owens open new aeronautics classroom*

Brooklyn, NY, students soon will be exploring the world of science and technology using the latest computer hardware and software in the brand new Major Owens Aeronautics Education Laboratory (AEL), named for Brooklyn Congressman Major R. Owens. NASA Administrator Daniel S. Goldin, Astronaut Michael P. Anderson and other NASA officials, along with Congressman Owens, and staff from Medgar Evers College/CUNY, Brooklyn, NY, and the Glenn Research Center, Cleveland, OH, opened the lab doors recently at a dedication ceremony on the campus of Medgar Evers College.

#### *NASA selects new aircraft technologies for research*

NASA's Office of Aerospace Technology has selected nine aeronautical concepts for awards as part of its Revolutionary Concepts program, which accelerates the exploration of high-risk, revolutionary-breakthrough technologies in atmospheric flight.

The selected projects will receive approximately \$300,000 each for Phase I research. Dryden Flight Research Center, Edwards, CA, is the lead center for the Revolutionary Concepts (REVCON) program, with significant involvement from Ames: Glenn Research Center, Cleveland, OH; and Langley Research Center, Hampton, VA.

#### *Spectacular x-ray jet points toward cosmic energy booster*

NASA's Chandra Observatory has revealed a spectacular luminous spike of x-rays that emanates from the vicinity of a giant black hole in the center of the radio galaxy Pictor A. The spike, or jet, is due to a beam of particles streaking across hundreds of thousands of light years of intergalactic space toward a brilliant x-ray hot spot that marks its end point.

The hot spot is at least 800 thousand light years (eight times the diameter of our Milky Way galaxy) away from where the jet originates. It is thought to represent the advancing head of the jet, which brightens conspicuously where it plows into the tenuous gas of intergalactic space. The jet, powered by the giant black hole, originates from a region of space no bigger than the solar system.

### Ames sets NASA Safety Record

Ames has reached a milestone in NASA history. On May 14, the Center concluded two consecutive years without a lost-time injury to a civil servant. Congratulations to each and every one of you.

However in FY 99, 33 lesser injuries to NASA civil servants required reporting to Headquarters. Several of these could have resulted in lost-time injuries. We can improve our work practices and reduce the number of these injuries.

Why is this important? Lost time means that an individual has been injured to the extent that he/she is unable to return to work on the day following the injury. If we avoid those injuries, we avoid pain and

possible disabilities. We also preserve the Center's financial resources, which allows us to continue various projects at the Center that couldn't otherwise be funded. If you suffer an injury that prevents your return to work, this work will likely fall to someone else adding to their workload.

Our goal is to continue our record. As of May 24, five different support contractors have each reported one lost-time injury. In reality, this is not too bad. However, we hope the contractor work force will achieve no further lost-time injuries for the remainder of FY '00.

BY MICHAEL HULET

### Minority University Research and Education Programs



photo by Tom Trower

Pictured above are the Summer 2000 NASA Scholars and Project ACCESS students with their mentors, Minority University Programs manager Brenda Collins and program coordinator Marissa Travers. While at Ames, NASA Scholars and Project ACCESS students will take part in exciting research projects. Students will be on Center from May 30 through August 4.

### Ames CCCC golf tournament set

The 2000 Ames Child Care Center (ACCC) annual charity golf tournament will be held at the Moffett Field golf course on July 21, at 12:30 p.m. (shotgun start). Reserve this date and plan to join in for an afternoon of exercise and fun!

As with past tournaments, the format of the tournament will be scramble (the best shot from your team will be used for each stroke). Invite your family and friends to play -- this format is ideal for a wide range of golfing capabilities from beginner to scratch.

The ACCC is a quality, parent-run childcare facility serving the Ames-Moffett community. In the next two years, the ACCC will be moving to a new facility that replaces its current, outdated trailers.

The proceeds from this tournament will help outfit the new facility. Show your support for the ACCC families by participating in the tournament.

Entry forms can be obtained online at: <http://acc.arcc.nasa.gov/cgi-bin/wrap.cgi/events/golf.html>

## Awards & Remembrance

### Galileo scholarship winners announced

Winners of Galileo memorial scholarships for 2000 were announced at a banquet dinner at the Wyndham Garden Hotel in Sunnyvale on May 18. This year's scholarship recipients are: Michele Cash, of San Jose; Xijia Chen, of Cupertino; George Lee, of San Mateo; Monica Morrison of Belmont and Aruna Venkatesan, of Pleasanton. They are all valedictorians from their respective high schools and are heading to prestigious universities throughout the country. Each of them received a check for \$1,300 and a scholarship certificate at the awards banquet.

The Galileo memorial scholarship was established in 1973 by Ames and the San Francisco Section of the American Institute of Aeronautics and Astronautics. It is a memorial to the crew who perished in the Galileo I aircraft accident on April 12, 1973. The Galileo I was a Convair 990, operated by Ames as an airborne laboratory for research in aeronautics, astronautics, astronomy and earth observations. The scholarship program is supported through donations. Residents of the Bay Area or children of Ames civil service employees, retirees or on-site contract employees are eligible to apply for a scholarship.

The scholarship recipients were selected from a pool of 181 applications. The five finalists were invited to Ames on May 4 for a tour of the unique laboratories and re-



*photo by Dominic Hart*

*Recipients of Galileo scholarships for 2000 and members of the scholarship review committee are pictured in front of the Shuttle Orbiter wind tunnel model, (left to right) Srinu Srinivasan, Monica Morrison, Aruna Venkatesan, Michele Cash, George Lee, Fanny Zuniga and Sid Sun. Not present: Xijia Chen.*

search facilities at Ames and for interviews with the scholarship review committee. Sidney Sun, Code SL; Fanny Zuniga, Code APS and Srinu Srinivasan, an Ames Associate. Toni Kirchmeier, Code D, provided administrative management of the scholarship

program and Rho Christensen, of Mains Associates, Inc, organized the tour of Ames for the students.

### Angelo ("Joe") Giovannetti passes on

Joe Giovannetti passed away on Friday April 14, 2000 after a several-month battle with cancer. He was 77.

After serving in the Navy in WW2, Giovannetti completed a bachelor's degree in mechanical engineering at Santa Clara University in 1946, and then a master's degree at Stanford in 1947. He joined the staff of the National Advisory Committee for Aeronautics, Ames Laboratory, in 1948.

He had a long and distinguished career at Ames, but is best remembered for his long-term positions as Chief of the Facilities Engineering branch and later, Chief of the Engineering division. He led the Engineering division from 1967 until 1981. In 1981, he officially retired but was retained as a re-employed annuitant in the position of Center Chief Engineer. He left Ames in 1983, but remained very active as an engineering consultant.

During his tenure, the Center was rapidly expanding its infrastructure in high-enthalpy facilities, space environmental

simulation, and large, moving-base aircraft simulators. He was a key contributor to these facilities and had detailed technical knowledge of all of them. During this busy period, Giovannetti found time to attend the Sloan executive education program at Stanford and contribute technically to space-based activities as diverse as the "Mars Surface Sample Return Mission Study Group," and the "Orbiting Frog Otolith Experiment Project."

Having had the privilege of working directly with Giovannetti for a number of years, I can truly say that I have never been more challenged or stimulated. I learned more from Giovannetti about engineering than from any other work or educational experience. He was the consummate professional engineer and a wonderful mentor. His contributions to the Center and to the development of young engineers created a long-lasting legacy. He will be sorely missed.

BY DAVID F. ENGELBERT



*Joe Giovannetti*

## Earth Science Research

### Arctic ozone layer slow to recover

The ozone layer that protects life on Earth may not be recovering from the damage it has suffered over the Arctic region as quickly as scientists previously thought. That was the main finding of a paper by lead author Azadeh Tabazadeh of Ames' Atmospheric Physics Branch published in the May 26 issue of the journal *Science*.

Tabazadeh and her co-authors analyzed

Tabazadeh said. "What we found from the satellite was that polar stratospheric clouds lasted twice as long in the Antarctic in the 1990s as compared to the Arctic."

"Our calculations show that, by 2010, the Arctic may become more 'Antarctic-like' if Arctic temperatures drop by a further 5 to 7 degrees Fahrenheit," she added. "Chlorine compounds that derive from

the reactions contain nitric acid and water, according to researchers.

"An ozone hole forms every spring over the Antarctic in the Southern hemisphere which is colder than the Arctic," said Tabazadeh. "The Arctic has been getting colder and is becoming more like the Antarctic; this could lead to more dramatic ozone loss in the future over the Northern hemisphere, where many people live." The Earth's ozone layer protects life below from the harmful ultraviolet radiation coming from the Sun. This radiation can damage DNA molecules, thereby leading to the formation of skin cancers.

More than a decade ago, scientists determined that human-made chlorine and bromine compounds cause most ozone depletion. Manufacturers made the chlorofluorocarbons for use as refrigerants, aerosol sprays, solvents and foam-blowing agents. Firefighters used bromine-containing halogens to put out fires.

Manufacture of CFCs ceased in 1996 in signatory countries under terms of the Montreal Protocol and its amendments. As a result, the chlorine concentration in the upper atmosphere is already starting to decline, according to Tabazadeh.

"Scientists used to believe that as chlorine levels decline in the upper atmosphere, the ozone layer should slowly start to recover. However, greenhouse gas emissions, which provide warming at the Earth's surface, lead to cooling in the upper atmosphere. This cooling promotes formation of the kind of polar stratospheric clouds that contribute to ozone loss," she added.

Researchers gathered field data during the NASA-sponsored SAGE III Ozone Loss and Validation Experiment (SOLVE) that was conducted jointly with the European Commission-sponsored Third European Stratospheric Experiment on Ozone (THESEO 2000). SOLVE involved satellites, aircraft, balloons and ground-based instruments operated from December 1999 through March 2000 by hundreds of researchers and support staff from the United States, Canada, Europe, Russia and Japan. Ames handled all hardware and coordinated personnel, aircraft, balloons, and ground observations involved in the campaign, according to Ames' Mike Craig, the SOLVE project manager.

By JOHN BLUCK



Polar stratospheric clouds that are involved in ozone depletion hover, seemingly innocently, over the Arctic landscape. Recent research implicates these clouds as an inhibiting factor in the recovery of the Arctic ozone layer.

NASA's upper atmosphere research satellite cloud data from both the northern and southern polar regions. Their conclusions are supported by data gathered last winter during a large NASA international Arctic field campaign.

The campaign revealed that ozone declined significantly over the Arctic last winter. The observed ozone loss was due to longer-lasting and larger polar stratospheric clouds (PSCs), scientists said. In some parts of the Arctic stratosphere — from about 16 to 29 kilometers above the Earth — ozone declined as much as 60 percent from November 1999 to March 2000, according to scientists.

"The Arctic may be getting colder and more humid — conditions that promote formation of more PSCs that take part in polar ozone destruction. The main conclusion of our study is that Arctic PSC clouds will remain longer in the stratosphere,"

human emissions of chlorofluorocarbons (CFCs) act on the surfaces provided by PSCs to destroy ozone," she said.

Ames' Eric Jensen presented specifics of Tabazadeh's research during a May 31 news briefing at the annual meeting of the American Geophysical Union in Washington, DC. He also reported the corroborating evidence gathered during field experiments. "Even very small numbers of particles in PSCs can efficiently remove nitrogen from the stratosphere," Jensen said. "We found that the clouds lasted longer during the 1999-2000 winter than during past winters, allowing greater ozone depletion over the Arctic."

When Arctic polar stratospheric clouds last longer, they can precipitate, removing nitrogen from the upper atmosphere, which increases the opportunity for chlorine compounds to destroy ozone more efficiently. The polar stratospheric clouds involved in

## Partnerships & Events

### Hardware development open house is a success!

Our first adventure in putting on an Open House to showcase the skills, products and facilities of the Advanced Compos-

ites (bldg. 212) and Flight Fabrication (bldg. 211) centers was a huge success. An estimated crowd of 300 toured buildings

211 and 212 where they were able to view craftsmen creating typical hardware, see many static displays of recently developed products, and ask questions of the staff. We saw many familiar faces and were also happy to see others who were new to us. Just remember, we're here to provide support for nearly any project you can envision. If you're not sure we can help you, drop 'a dime' in your phone and give us a call. We might be able to offer you an approach you hadn't considered.



photo by Tom Spalding

Dr. Henry McDonald, Ames Center Director, and Bill Berry, Deputy Director, tour the Advanced Composites Center in building 212.

If you missed the Open House, don't worry we'll be doing it again in about 6 months when we'll be presenting our other product-development centers. Our Developmental Machining and Electromechanical Instrumentation Branch (bldg. 220) provides support in the areas of electronics, mechanical small-prototype development, and precision machining of complex and contoured surfaces. Our Structural Fabrication group (bldg. 246) provides support in the areas of R&D facility development and modification, and large model development.

You don't have to wait for another Open House to drop in though. We'll work with you to help develop your product whether it's a bracket or a complex piece of hardware. Come by and talk with us to hear what we can do for you.

A drawing for 8 hours of support was held and won by James Podolske, Code SGG. Jim will redeem his 8 hours in either the Advanced Composites or Sheet Metal centers.

BY BOB KING

### NASA and VA partner for patient safety

A NASA-operated voluntary patient safety protection system 'came to life' May 30 when NASA and Department of Veterans Affairs (VA) officials signed an agreement at the National Press Club in Washington, DC.

By forging an alliance with NASA, the veterans' agency will be tapping into agency expertise on safety issues to implement and operate a system for recording and analyzing medical errors and "close calls." VA operates 172 medical centers that last year treated more than 3.3 million patients. The VA has been a leader in reporting medical errors.

Dr. Henry McDonald, Center Director of Ames, and Dr. Thomas Garthwaite, Acting Under Secretary for Health for the Department of Veterans Affairs, signed the formal agreement that paves the way

for development of the voluntary external patient safety reporting system.

NASA will operate the VA patient safety reporting system that it modeled after the NASA-administered, Ames-based Aviation Safety Reporting System (ASRS), funded by the Federal Aviation Administration and operated under a Memorandum of Agreement between the FAA and NASA. The ASRS collects, analyzes and responds to voluntarily submitted aviation safety incident reports in order to lessen the likelihood of aviation accidents.

Also participating in the press conference were Linda Connell, ASRS Director, NASA Ames; James Bagian, M.D., P.E., Director of VA's National Center for Patient Safety and John Eisenberg, M.D., Director of the Agency for Healthcare Research and Quality.

BY LAURA LEWS

### Education Outreach 2000

In a continuing effort to promote the development of our employees through academic training, the Human Resources division is sponsoring an education fair to make employees aware of the educational opportunities available in the local area and on site at Ames. Local colleges and universities have been invited to Ames on June 20 to provide Center personnel with information on their graduate and undergraduate programs.

Ames supports educational programs and training that are relevant to the mission of the Center. Centerwide training funds are available for federal employees who wish to take advantage of this kind of training opportunity.

All Ames employees are invited to attend. Education Outreach 2000 will be held in the Moffett Training and Conference Center (Bldg. 3), Ballroom, on June 20 from 9:00 a.m. to 2:00 p.m.

If you have questions, contact Anna Jenkins at ext 4-1251.



## Calendar & Classifieds

### Event Calendar

**Model HO/Hon3 Railroad Train Club** at Moffett Field invites train buffs to visit & join the club in Bldg. 126, across from the south end of Hangar One. Work nights are usually on Friday nights from 7:30 p.m. to 9:30 p.m. Play time is Sunday from 2 p.m. to 4 p.m. For more info, call John Donovan at (408) 735-4954 (W) or (408) 281-2899 (H).

**Jetstream Toastmasters**, Mondays, 12 noon to 1 p.m., N-269/Rm. 179. Guests welcome. POC: Samson Cheung at ext. 4-2875 or Lich Tran at ext. 4-5997.

**Ames Child Care Center Board of Directors Mtg.** Every other Thursday (check Web site for meeting dates), 12 noon to 2 p.m., N269, Rm. 201. POC: David Kormeyer, ext. 4-3114. Web site: <http://acc.arc.nasa.gov>

**Ames Amateur Radio Club**, Jun 15, 12 noon, N-260/Conf. Rm. POC: Mike Herrick, K6EAA at ext. 4-5477.

**Ames Asian American Pacific Islander Advisory Group Mtg.** Jun 15, 11:30 a.m. to 1 p.m., N-237/Rm. 101. POC: Daryl Wong, ext. 4-6889 or Margaret Salas, ext. 4-6755.

**NFFE Local 997 Union General Mtg.** Jun 21, noon to 1 p.m., Bldg. 19/Rm. 2017. Guests welcome. POC: Marianne Mosher at ext. 4-4055.

**Native American Advisory Committee Mtg.** Jun 27, 12 noon to 1 p.m., Ames Café. POC: Mike Liu at ext. 4-1132.

**Ames Contractor Council Mtg.** Jul 5, 11 a.m., N-200 Comm. Rm. POC: David Lawrence at ext. 4-6434.

**Environmental, Health and Safety Monthly Information Forum**, Jul 6, 8:30 a.m. to 9:30 a.m., Bldg. 19/Rm. 1078. POC: Linda Vrabel at ext. 4-0924.

**Hispanic Advisory Committee for Employees**, Jul 6, 11:45 a.m. to 12:30 p.m., N-241/Rm. 237. POC: Mary R. Valdez, at ext. 4-5819.

**Ames African American Advisory Group Mtg.** Jul 6, 11:30 a.m. to 12:30 p.m. POC: Robert Finnie at ext. 4-5230. Contact Robert for meeting place.

**Nat'l Association of Retired Federal Employees (NARFE), San Jose Chapter #50 Mtg.** Jul 7, at Hometown Buffett, 4735 Hamilton Avenue, San Jose. Program starts at 9:30 a.m. followed by lunch. POC: Mr. Rod Perry (650) 967-9418 or NARFE 1-800-627-3394.

**Ames Sailing Club Mtg.** Jul 13, 11:30 a.m. to 1 p.m., N-262/Rm. 100. POC: Stan Phillips, ext. 4-3530.

**Professional Administrative Council (PAC) Mtg.** Jul 13, 10:30-11:30 a.m., Bldg 210, Rm. 115. POC: Leslie Jacob, ext. 4-5059.

**All Ames Bowling League**, Captains mtg on August 29, Season from Sept 4 to April 17, Tuesdays, 6 p.m., at Palo Alto Bowl. Bowlers needed. POC: Mina Cappuccio, ext. 4-1313 or Carmen Park, ext 4-1215.

### Ames Classifieds

Ads for the next issue should be sent to [astrogram@mail.arc.nasa.gov](mailto:astrogram@mail.arc.nasa.gov) by the Monday following publication of the present issue and must be resubmitted for each issue. Ads must involve personal needs or items: (no commercial/third-party ads) and will run on space-available basis only. First-time ads are given priority. Ads must include home phone numbers: Ames extensions and email addresses will be accepted for carpool and lost & found ads only. Due to the volume of material received, we are unable to verify the accuracy of the statements made in the ads.

#### Housing

For sale by owner: \$549K, small horse ranch near Watsonville. Royal oaks, California/scenic area. 3 acres w/ trees & lots of open space. 3 bd/2 ba home/family rm w/ fireplace. Front/rear decks w/hot tub rm. 2 car garage w/laundry rm & storage rm. Barn, tack rm, corals, workshop/electricity. Property fenced & outside lighting. Ron (408) 736-2150. Lv msg or call (831) 722-0130.

Housing needed: N/S Commuter couple seek dog-friendly room/shared housing near Ames. We will only be around 3-4 nights a week. Rudy Aquilina (415) 282-4564.

Housing needed: female and male full-time employed students seeking permanent apartment (1 bd/1 ba bath) between Cupertino and San Jose. Need housing by August 31. Apartments only, no rooms or roommates. Beth (408) 629-0869; [cmldix@aol.com](mailto:cmldix@aol.com).

Rooms for rent: 3 pleasant, sunny, furnished bedrooms for rent in the Campbell/Los Gatos corner of San Jose. Clean, considerate, professional household. No smoking/pets. Long term rental or p/t permanent commuter preferred, short term possible. Rental agreement and deposits required. Shared bath or room with bath. Call (408) 266-7272 and leave clear msg.

Large room in 4 bd/ba home, excellent Mtn View area. Washer, drier, fireplace, microwave, new carpet. Tidy person & nonsmoker. \$450 + share utilities. Avail. 8/1. Call (650) 964-1900.

House for rent, 3bd/2 ba, 2 car garage, fireplace, livingroom, large upgraded kitchen, remodeled bathroom, new carpet, large back yard. Near schools. No pets. \$1,750 per month. First and last month's rent plus deposit to move in. Available July 1. Call (650) 968-1347.

#### Transportation

Camper van, high top, self-contained. 90K mls on '87 Ford Econoline engine. 15K \$. Call (415) 826-3041.

'70 VW convertible classic, original owner, no smog needed; transmission ok; needs work on top & possibly engine. \$2,000. Esther or Art at (650) 961-2732.

'93 Yamaha WaveVenture 700, 3 seater, 65 hrs, 1996 Shoreline Trailer, cover, vests, etc. \$3,000. Great condition! Randy (408) 734-9550.

'95 Chevy Blazer LT, 4X4, 79K mls. Fully loaded, roof rack, offroad & tow packages, cass., ac, pl, pw, abs brakes, pr glass, tilt, c/c, chromen red & dk. gray. Asking \$14,500 or B/O. Bob (408) 736-4039.

#### Miscellaneous

Homeless cats looking for love! A handsome tabby Maine Coon cat, a small orange striped cat, a mustachioed outdoor cat, and kittens urgently need homes. Please lv message at their foster home at (408) 739-3171.

Top of the line Sears/Kenmore heavy duty washing machine. Bought last summer, used about 6 months. \$600 new, asking \$450. Lots of temperature & washing choices including delicate. Auto softener feature. Also, basic white dryer for \$50. Ken (650) 520 4536.

Fitness trampoline. Foldable, still in box. \$200. Call (415) 826-3041.

49er tickets, sec. 53. Pre-season, vs. Denver 8/25. \$80/pair. Call (510) 656-7654.

Whirlpool washer and dryer, white, heavy duty, about 4 years old. \$300 set. Call (408) 736-3465.

Wedding dress for sale. Purchased in 1999, has been cleaned, size 10, white, medium size train, sleeveless, off the shoulder, v-neck, open low back, (tapered waist-sequence and pearl beads) satin dress, tulle overlay with satin trim, asking \$350. Lourdes (408) 526-9661.

Pair of 49er tickets, sec. 62, 9/10 Carolina, 10/1 Arizona, \$50 ea. 10/8 Raiders, \$70 ea. 10/29 St Louis, 11/12 Kansas City, 11/19 Atlanta, 12/10 New Orleans, 12/17 Chicago \$50 ea. Jon (408) 985-7323 H.

Generator/Coleman Powermate, 120 volts, 2250 watts, 18.75 amps, 5 H.P. gas engine, like new, low hours. \$300. Dan (408) 998-3077.

Pair of Tickets to Jazz at Filoli (Sold Out!), \$55 each, includes 2 box lunches. The Claudia Villala Group plays at the Filoli Gardens in Woodside, off of Canada Road. Sunday, July 9, 1:30 p.m. to 4:30 p.m. Gates open at 12:30. Email: [megan@eleventhhourproductions.com](mailto:megan@eleventhhourproductions.com), or call (650) 854-1928.

#### Vacation rental

Lake Tahoe-Squaw Valley Townhse, 3br/2ba, balcony view, horseback riding, hiking, biking, golf, river rafting, tennis, ice skating and more. Summer rates. Call (650) 968-4155 or email: [DBMcKellar@aol.com](mailto:DBMcKellar@aol.com)

Lake Tahoe-Squaw Valley-Olympic Village Inn for 4 people. Full kitchen, TV/VCR, spa, BBQ, free bikes, walk to lifts. \$450 for 4 nights/5 days, 6/18/00 to 6/22/00, Sunday to Thursday. Juliet (650) 321-9008 or email: [LiuHsinMei@aol.com](mailto:LiuHsinMei@aol.com) for more details.

#### Lost & Found

Moffett Field Lost and Found may be reached at ext. 4-5416 at any time. Residents and employees at Ames may also use Internet browser at: <http://ccf.arc.nasa.gov/codej/pages/lostFound.html> to view a list of found property and obtain specific instructions for reporting lost or found property and how to recover found property. Call Moffett Field security police investigations section at ext. 4-1359 or email at: [mfine@mail.arc.nasa.gov](mailto:mfine@mail.arc.nasa.gov).

#### Ames radio information for employees

1700KHz AM radio--information announcements for Ames employees during emergencies.

### Ames Retirements

Name	Code	Date
Betty J. Baldwin	SSA	6/02/00

### AAE employee day set

On Tuesday, June 20, from 10 a.m. until 2 p.m., the Ames Aerospace Encounter (AAE) will be holding another in their series of "Ames Employee Days at the AAE." The Encounter is located on the 2nd floor of Bldg. 226. All on-site personnel are invited to attend and bring their family and friends for a self-paced tour (allow about an hour).

The Encounter is booked year round with 4th to 6th grade student fieldtrips.

Please note that children must be accompanied by an adult at all times and that employees are responsible for arranging to bring their guests onto Moffett Field.

For more information about this event, email: [encounter@mail.arc.nasa.gov](mailto:encounter@mail.arc.nasa.gov) or call ext. 4-1110.

The last Ames Employee Day at the AAE for the year will be July 26, from 10 a.m. until 2 p.m.

### Astrogram deadlines

All Ames employees are invited to submit articles relating to Ames projects and activities for publication in the *Astrogram*. When submitting stories or ads for publication, submit your material, along with any questions, in MS word by e-mail to: [astrogram@mail.arc.nasa.gov](mailto:astrogram@mail.arc.nasa.gov) on or before the deadline.

Deadline	Publication
Tues, Jun 13	Mon, Jun 26
Tues, Jun 27	Mon, Jul 10
Tues, Jul 25	Mon, Aug 7

## Visitors & Events

### A time to dream...!

*continued from front page*

program into partnership with Silicon Valley," said NASA Administrator Daniel S. Goldin, "but the partnership also puts NASA at the forefront of the information age. This is innovative government at its best."

According to the announcement out of NASA Headquarters, the goal of this new public-private partnership is "to deliver the adventures of the space frontier through the new technologies of the digital frontier."

The agreement provides for "high-definition television coverage of astronaut activities aboard the International Space Station and on Shuttle missions." Dreamtime will also create "an easily accessible, web-searchable, digital archive of the best of NASA's space imagery."

"NASA routinely does what has never been done before," said Ames Center Director Dr. Henry McDonald. "While we may have cultural and semantic differences with the entreprenuring, free-wheeling Internet community, they, too, in their way do what has never been done. So, we are more alike than different, and united in our commitment to make space full of knowledge for all people," he observed.

The new agreement is in partial response to a declaration of the U.S. Congress that commercial utilization is one of the primary goals of the American space program. Dana Rohrabacher, Chair of the House Committee on Science, said that the new agreement exceeds his expectations. He joked with the crowd, saying that he would have been happy if NASA had merely painted one of the boosters on the Shuttle to resemble the bottle of a popular soft drink maker.

"We are proud to be partnered with NASA in this historic undertaking," said Bill Foster, Dreamtime's Chairman, CEO and creative inspiration. "To us, space is the great adventure, and this is the perfect marriage of high tech and high emotion. The opportunity to educate and excite is at the heart of this venture." Foster also announced that 5 percent of Dreamtime's equity will be donated to worthwhile charitable causes.

The agreement between NASA and Dreamtime was signed after the agency conducted a public solicitation and evaluation of 12 proposals. The agreement is for a 7-year base period with a 5-year option. There are no exclusive rights involved in the Dreamtime agreement. Nothing precludes NASA from participating in partnerships with other private sector companies in multimedia or other areas of mutual interest.

BY DAVID MORSE

### Congressman Walker visits Ames



Robert Walker (left) former Pennsylvania Congressman and Chair of the House Science Committee, chats with Ames' Chuck Jorgensen (right) in front of the vision dome.



Jorgensen (left) explains to Walker (center) the capability of Ames' neural net software to land an aircraft in the event of a catastrophic accident, such as loss of a wing, while Deputy Director of Information Systems, Paul Kutler (right) looks on.



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